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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/647,136		08/25/2003	In-sik Seo	1293.1879	1050	
21171	7590	08/25/2004		EXAMINER		
STAAS & HALSEY LLP SUITE 700			ı	, CHEN, So	, CHEN, SOPHIA S	
	=	AVENUE, N.W.		ART UNIT	PAPER NUMBER	
	GTON, D	•		2852		
				DATE MAILED: 08/25/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	·-·	Application No.	Applicant(s)					
		10/647,136	SEO, IN-SIK	SEO, IN-SIK				
	Office Action Summary	Examiner	Art Unit					
		Sophia S. Chen	2852	Dung.				
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet w	ith the correspondence add	dress				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication a period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory pere to reply within the set or extended period for reply will, by streply received by the Office later than three months after the need patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thir eriod will apply and will expire SIX (6) MON tatute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this col BANDONED (35 U.S.C. § 133).	mmunication.				
Status								
1)	Responsive to communication(s) filed on _							
2a) <u></u> ☐	This action is FINAL . 2b)⊠	This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) <u>1-17</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
-	Claim(s) is/are allowed.							
	Claim(s) <u>1,2,5,10 and 13</u> is/are rejected.			·				
	Claim(s) <u>3,4,6-9,11,12 and 14-17</u> is/are ob							
اـــا(٥	Claim(s) are subject to restriction ar	na/or election requirement.						
Applicati	on Papers							
9)[The specification is objected to by the Exan	niner.						
10)🛛	The drawing(s) filed on <u>25 August 2003</u> is/a	are: a)□ accepted or b)⊠ ob	ojected to by the Examiner					
	Applicant may not request that any objection to	= : :	, ,					
111	Replacement drawing sheet(s) including the co			, ,				
' ' '	The oath or declaration is objected to by the	e Examiner. Note the attache	d Oπice Action or form P10	0-152.				
Priority t	ınder 35 U.S.C. § 119							
_	Acknowledgment is made of a claim for fore ☑ All b) ☐ Some * c) ☐ None of:	eign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).					
	1. Certified copies of the priority docum							
	2. Certified copies of the priority docum							
	3. Copies of the certified copies of the		received in this National S	Stage				
* 5	application from the International Bu see the attached detailed Office action for a	` ''	received					
	and a second design for a	or and optimine dopies flot	10001704.					
A44	W.)							
Attachmen 1) 🔯 Notic	t(s) e of References Cited (PTO-892)	A) Intonúació	Summary (PTO-413)					
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)) Paper No(s)/Mail Date					
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB r No(s)/Mail Date <u>7/19/04</u> .	5) ☐ Notice of 1 6) ☐ Other:	nformal Patent Application (PTO-	-152)				
S Patent and Tu				_				

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "plurality of protuberances" (claims 10, 12, 13, and 15), "a cap having a plurality of insertion holes into which the plurality of protuberances" (claims 11 and 14), "the plurality of protuberances are inserted into the plurality of insertion holes" (claims 11 and 14), "a plurality of power supply cutting-off module" (claims 12 and 15), and "the plurality of separated protuberances" (claims 12 and 15) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will

be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claim 12 is objected to because of the following informality: line 3, "module" should be "modules". Appropriate correction is required.

Claim Rejections – 35 U.S.C. §102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 5, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Tamura (JP 62-209547).

Tamura discloses a device cutting off a power supply of a printer 1', the printer 1' including a developer unit 12 and a printer cover 21, the device comprising: a first unit 29 cutting of the power supply provided to the developing unit 12; and a second unit 28 cutting off power supply provided on the surface of the printer cover 21 opposite to the developer unit 12 so as to correspond to the first unit 29 (Figures 3 and 4).

Tamura further discloses the second unit 28 comprises a plurality of protuberances opposing the developing unit 12 when the printer cover 21 is closed and the developing unit 12 is mounted in the printer 1' (Figures 3 and 4).

Claim Rejections - 35 U.S.C. §103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tamura in view of *In re Gazda* (219 F.2d 449, 104 USPQ 400 (CCPA 1955)).

Tamura, as discussed above, differs from the instant claimed invention in not disclosing the first unit comprises a protuberance (or a plurality of protuberances) opposing the printer cover.

In re Gazda discloses "Prior art disclosed a clock fixed to the stationary steering wheel column of an automobile while the gear for winding the clock moves with steering wheel; mere reversal of such movement, so the clock moves with wheel, was held to be an obvious expedient."

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to place the protuberances to the first unit in place of the protuberances being placed to the second unit of Tamura because this reversed arrangement was held to be an obvious expedient.

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Allowable Subject Matter

7. Claims 3, 4, 6-9, 11, 12, and 14-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Other Prior Art

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kitajima et al. (US Pat. No. 6,091,912) discloses a printer comprising a developing unit, a printer cover, and a power cutting-off device.

Shiraishi et al. (US Pat. No. 6,125,251) discloses an image forming apparatus comprising a front door, a switch, a power source section, and the switch cutting off the power when the front door is opened.

Amano (US Pat. Pub. No. US 2002/0127028 A1) discloses an image forming apparatus comprising a power being cutting off when a door is opened.

Ishii (US Pat. No. 6,647,223) discloses an image forming apparatus comprising a power being cutting off when a door is opened.

Kodera (JP 06-083130) discloses an image forming apparatus in which the power source is cut off by opening a protection door.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sophia S. Chen whose telephone number is (703) 308-7617. The examiner can normally be reached on M-F (7:00-3:00) First Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on (703) 308-1373. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sophia S. Chen Primary Examiner Art Unit 2852

Ssc August 23, 2004